



In the United States Patent and Trademark Office

Serial Number: 09/883,626
Appn. Filed: 06/18/2001
Applicant: Hou-Mei Henry Chang
Appn. Title: Deductive Object-Oriented Data Mining System
Examiner/GAU: /2122

#2
11/06/01
✓
RECEIVED

SEP 19 2001

Technology Center 2100

Mailed: 9/10/2001

At: Stafford, TX

Information Disclosure Statement

Commissioner of Patents and Trademarks
Washington, DC 20231

Sir:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon. Following are comments on these references pursuant to Rule 98:

1. US Patent 5,473,732, H.M. Chang discloses a Relational Artificial Intelligence System, in which the relational technology is introduced. In the present invention, for the similar problem, the applicant discloses an object-oriented technology, which is a totally different technology with the relational technology.
2. US Patent 5,787,425, J.P. Bigus discloses an Object-Oriented Data Mining Framework Mechanism. It is an object-oriented data mining technique, but no "deductive" technique is applied. This is different with the present invention.
3. US Patent 5,875,285, H.M. Chang disclosed Object-Oriented Data Mining and Decision Making System. In the patent only object-oriented technique but no "deductive" technique is applied. "Deductive" is one of the key points in the present invention. Because "deductive" technique is applied, many objects can be deleted even before generation. This is the key to greatly speeding up the data mining process. This technique has never been found in any patents, papers, or books.

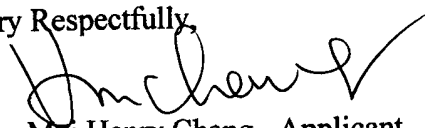
The following are review papers about knowledge discovery from databases (i.e., data mining). None of them mention that there exist any papers, patents, or products using deductive object-oriented learning technique to do knowledge acquisition from databases or any data set.

4. Fayyad, U., et al. 1996, From Data Mining to Knowledge Discovery in Databases, AI Magazine, (17) 3, 37-54. This is a review paper on data mining research published in fall 1996. Authors of this paper are authorities in data mining area, and this was why AI Magazine asked them to write the review paper. In this review paper, no deductive object-oriented data mining system product, patent, paper, or research was reported.
5. Thrun, S., et al., 1999, Automated Learning and Discovery, AI Magazine, (20) 3, 78-82. At the Conference on Automated Learning and Discovery, which took place in June 1998 at Carnegie Mellon University, there was no report on object-oriented data mining or object-oriented knowledge discovery from databases.

The key point of the applicant's present invention is that not only object-oriented technique but also deductive techniques is applied. Because "deductive" technique is applied, many objects can be deleted even before generation. This is the key to greatly speeding up the data mining process. This technique has never been introduced in any patents, papers, or books.

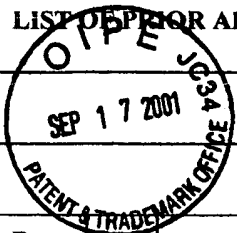
Therefore the following conclusion is achieved: The invention of the applicant has unobvious and novel features.

Very Respectfully,


Hou-Mei Henry Chang, Applicant

4950 Sugar Grove Blvd., #505
Stafford, TX 77477
Phone: (281) 565-3288; Cell: (713) 553-7374

ENC: Form PTO-1449, and References.

| | | | | | | | |
|---|-----|--|----------------|--------------------------------|-------|------------------------|----------------|
| Form PTO-1449 | | | | Atty Docket No.: N/A | | Serial No.: 09/883,626 | |
| LIST OF PRIOR ART CITED BY APPLICANT | | | | Applicant: Hou-Mei Henry Chang | | | |
|  | | | | Filing Date: 06/18/2001 | | Group: 2122 | |
| | | | | | | | |
| US Patent Documents | | | | | | | |
| Exmr Initial | Seq | Docu Nmr. | Patent Date | Name | Class | Sub- class | Filing Date |
| | 1 | 5,473,732 | 12/5/1995 | Hou-Mei H. Chang | 395 | 77 | 2/7/1995 |
| | 2 | 5,787,425 | 7/28/1998 | Joseph Phillip Bigus | 707 | 6 | 10/1/1996 |
| | 3 | 5,875,285 | 2/23/1999 | Hou-Mei Chang | 395 | 62 | 11/22/1996 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Foreign Patent Documents | | | | | | | |
| | | N/A | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Other Prior Art | | | | | | | |
| | 4 | Fayyad, U. et.al., AI Magazine, (17) 3, 1996, 37-54, From Data Mining to Knowledge Discovery in Databases | | | | | |
| | 5 | Thrun, S., et.al., AI Magazine (20) 3, 1999, 78-82 Automated Learning and Discovery | | | | | |
| | | | | | | | |
| | | | | | | | |
| Examiner: | | | | Date Considered: | | | |

RECEIVED

SEP 19 2001

Technology Center 2100